

Title (en)
INTER-MODE LIGHT SWITCH

Title (de)
LICHTSCHALTER MIT ZWISCHENMODUS

Title (fr)
INTERRUPTEUR DE LAMPE INTER-MODE

Publication
EP 2889672 A1 20150701 (EN)

Application
EP 13833826 A 20130827

Priority
• JP 2012186852 A 20120827
• JP 2013072848 W 20130827

Abstract (en)
Provided is an optical mode switch that can effect a more compact optical switch. The optical mode switch (100) is provided with: a single input port (1); a single output port (2); two waveguides (10) provided in parallel between the input port (1) and the output port (2); and a refractive index altering means (8) that alters the refractive index of the waveguides. Any given mode light input to the input port (1) is output as any given mode light from the output port (2) in accordance with the refractive index altered by the refractive index altering means (8).

IPC 8 full level
G02F 1/313 (2006.01); **G02B 6/12** (2006.01); **G02B 6/14** (2006.01); **G02B 6/35** (2006.01); **G02F 1/025** (2006.01); **G02F 1/035** (2006.01)

CPC (source: EP US)
G02B 6/12033 (2013.01 - EP); **G02B 6/125** (2013.01 - EP); **G02B 6/3536** (2013.01 - EP); **G02B 6/354** (2013.01 - US);
G02F 1/0353 (2013.01 - EP US); **G02F 1/3133** (2013.01 - EP US); **G02F 1/3136** (2013.01 - EP US); **G02F 1/212** (2021.01 - EP US);
G02F 2201/05 (2013.01 - EP US)

Cited by
US11360261B2; US12025830B2; WO2019063464A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2889672 A1 20150701; **EP 2889672 A4 20160518**; **EP 2889672 B1 20180502**; JP 6245651 B2 20171220; JP WO2014034654 A1 20160808;
US 2015168652 A1 20150618; US 9563020 B2 20170207; WO 2014034654 A1 20140306

DOCDB simple family (application)
EP 13833826 A 20130827; JP 2013072848 W 20130827; JP 2014533016 A 20130827; US 201514634197 A 20150227